Appendix

Version 5.0.1.RELEASE

Chapter 1. XML Schemas

This part of the appendix lists XML schemas related to integration technologies.

1.1. The jee schema

The jee tags deal with Java EE (Java Enterprise Edition)-related configuration issues, such as looking up a JNDI object and defining EJB references.

To use the tags in the jee schema, you need to have the following preamble at the top of your Spring XML configuration file; the text in the following snippet references the correct schema so that the tags in the jee namespace are available to you.

1.1.1. <jee:jndi-lookup/> (simple)

Before...

1.1.2. <jee:jndi-lookup/> (with single JNDI environment setting)

Before...

After...

```
<jee:jndi-lookup id="simple" jndi-name="jdbc/MyDataSource">
     <jee:environment>foo=bar</jee:environment>
    </jee:jndi-lookup>
```

1.1.3. <jee:jndi-lookup/> (with multiple JNDI environment settings)

Before...

```
<jee:jndi-lookup id="simple" jndi-name="jdbc/MyDataSource">
    <!-- newline-separated, key-value pairs for the environment (standard Properties format) -->
    <jee:environment>
        foo=bar
        ping=pong
        </jee:environment>
        </jee:jndi-lookup>
```

1.1.4. <jee:jndi-lookup/> (complex)

Before...

After...

```
<jee:jndi-lookup id="simple"
    jndi-name="jdbc/MyDataSource"
    cache="true"
    resource-ref="true"
    lookup-on-startup="false"
    expected-type="com.myapp.DefaultFoo"
    proxy-interface="com.myapp.Foo"/>
```

1.1.5. <jee:local-slsb/> (simple)

The <jee:local-slsb/> tag configures a reference to an EJB Stateless SessionBean.

Before...

```
<jee:local-slsb id="simpleSlsb" jndi-name="ejb/RentalServiceBean"
    business-interface="com.foo.service.RentalService"/>
```

1.1.6. <jee:local-slsb/> (complex)

After...

```
<jee:local-slsb id="complexLocalEjb"
    jndi-name="ejb/RentalServiceBean"
    business-interface="com.foo.service.RentalService"
    cache-home="true"
    lookup-home-on-startup="true"
    resource-ref="true">
```

1.1.7. <jee:remote-slsb/>

The <jee:remote-slsb/> tag configures a reference to a remote EJB Stateless SessionBean.

Before...

```
<jee:remote-slsb id="complexRemoteEjb"
    jndi-name="ejb/MyRemoteBean"
    business-interface="com.foo.service.RentalService"
    cache-home="true"
    lookup-home-on-startup="true"
    resource-ref="true"
    home-interface="com.foo.service.RentalService"
    refresh-home-on-connect-failure="true">
```

1.2. The jms schema

The jms tags deal with configuring JMS-related beans such as Spring's MessageListenerContainers. These tags are detailed in the section of the JMS chapter entitled JMS namespace support. Please do consult that chapter for full details on this support and the jms tags themselves.

In the interest of completeness, to use the tags in the jms schema, you need to have the following preamble at the top of your Spring XML configuration file; the text in the following snippet references the correct schema so that the tags in the jms namespace are available to you.

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    <em>xmlns:jms="http://www.springframework.org/schema/jms"</em>
xsi:schemaLocation="
    http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
    <em>http://www.springframework.org/schema/jms
http://www.springframework.org/schema/jms
http://www.springframework.org/schema/jms/spring-jms.xsd"</em>> <!-- bean definitions
here -->
</beans>
```

1.3. <context:mbean-export/>

This element is detailed in Configuring annotation based MBean export.

1.4. The cache schema

The cache tags can be used to enable support for Spring's <code>@CacheEvict</code>, <code>@CachePut</code> and <code>@Caching</code> annotations. It it also supports declarative XML-based caching. See Enable caching annotations and <code>Declarative XML-based caching</code> for details.

To use the tags in the cache schema, you need to have the following preamble at the top of your Spring XML configuration file; the text in the following snippet references the correct schema so that the tags in the cache namespace are available to you.

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    <em>xmlns:cache="http://www.springframework.org/schema/cache"</em>
xsi:schemaLocation="
    http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans.xsd
    <em>http://www.springframework.org/schema/cache
http://www.springframework.org/schema/cache
http://www.springframework.org/schema/cache/spring-cache.xsd"</em>> <!-- bean
definitions here -->
</beans>
```